AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An image processing method comprising:

a feature value calculation step of calculating feature values of micro regions in a specified region having a pixel of interest at a center, from pickup results of an image pickup

device that has a color filter with a particular color at each of pixels arrayed two-dimensionally;

an edge intensity value calculation step of calculating an edge intensity value in a

neighborhood of the pixel of interest from the feature values of the micro regions calculated by

the feature value calculation step;

a filter value calculation step of calculating a low-pass filter value of the pixel of interest

from the image signal values of neighboring pixels which have a same color component as the

pixel of interest; and

an image signal value correction step of correcting the image signal value of the pixel of

interest by using the edge intensity value calculated by the edge intensity value calculation step

and the low-pass filter value calculated by the filter value calculation step, wherein said image

signal value correction is performed either before or after a color interpolation.

2. (Currently Amended) The image processing method according to claim 1, further comprising

an edge intensity value correction step of correcting the edge intensity value calculated in the

edge intensity value calculation step in accordance with an edge intensity correction curve,

wherein the image signal value correction step corrects the image signal value of the pixel of

interest by carrying out weighted addition of the image signal value of the pixel of interest and

the low-pass filter value using the edge intensity values before and after the edge intensity value

correction.

3. (Original) The image processing method according to claim 1, wherein the feature value

calculation step, using image signal values output from R-color filter, G-color filter and B-color

filter corresponding to the micro regions in the specified region, calculates the feature values of

the micro regions.

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4. (Original) The image processing method according to claim 1, wherein when carrying out

color interpolation of an image of the pixel of interest using pixel signal values of neighboring

pixels, the feature value calculation step, the edge intensity value calculation step, the filter value

calculation step and the image signal value correction step carry out the correction of the image

signal value of the pixel of interest.

5. (Original) An image processing method comprising:

a feature value calculation step of calculating feature values of micro regions in a

specified region having a pixel of interest at a center, from pickup results of an image pickup

device that has a color filter with a particular color at each of pixels arrayed two-dimensionally;

a binarization step of binarizing the feature values of the micro regions calculated by the

feature value calculation step;

a contour detection step of detecting a contour using the feature values binarized by the

binarization step; and

an image signal value correction step of correcting an image signal value of the pixel of

interest using image signal values of a plurality of pixels including the pixel of interest in a same

direction as the contour detected by the contour detection step.

6. (Original) The image processing method according to claim 5, wherein the image signal value

correction step corrects the image signal value of the pixel of interest by carrying out weighted

addition of the image signal values of the plurality of pixels in the same direction as the contour.

7. (Original) The image processing method according to claim 5, wherein the contour detection

step detects the contour by carrying out pattern matching of distribution of the feature values in

the specified region binarized by the binarization step with preset binary distribution.

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8. (Original) An image processing method comprising:

a feature value calculation step of calculating feature values of micro regions in a

specified region having a pixel of interest at a center, from pickup results of an image pickup

device that has a color filter with a particular color at each of pixels arrayed two-dimensionally;

a binarization step of binarizing the feature values of the micro regions calculated by the

feature value calculation step;

a contour detection step of detecting a contour using the feature values binarized by the

binarization step; and

a first image signal value correction step of correcting, when the contour is detected by

the contour detection step, an image signal value of the pixel of interest using image signal

values of a plurality of pixels including the pixel of interest in a same direction as the contour

detected by the contour detection step;

an edge intensity value calculation step of calculating, when the contour is not detected

by the contour detection step, an edge intensity value in a neighborhood of the pixel of interest

from the feature values of the micro regions calculated by the feature value calculation step;

a filter value calculation step of calculating a low-pass filter value of the pixel of interest

from the image signal values of neighboring pixels which have a same color component as the

pixel of interest; and

a second image signal value correction step of correcting the image signal value of the

pixel of interest by using the edge intensity value calculated by the edge intensity value

calculation step and the low-pass filter value calculated by the filter value calculation step.

9. (New) The image processing method of claim 5, said feature value calculation step further

comprising calculating a low-pass filter value of the pixel of interest from image signal values of

neighboring pixels which have the same color component as the pixel of interest.